



$$m = 68.0\text{g given} \quad \text{a) } m = ? \quad \text{b) } m = ?$$

$$M = 34.02\text{g/mol} \quad M = 18.02\text{g/mol} \quad M = 32.00\text{g/mol}$$

$$\text{a) [2] } n = \frac{68.0\text{g}}{34.02\text{g/mol}} = 2.00\text{mol}$$

$$\text{[3] } 2.00\text{mol} \times \frac{2\text{mol?}}{2\text{mol given}} = 2.00\text{mol}$$

$$\text{[4] } n = \frac{m}{M}$$

$$2.00\text{mol} = \frac{m}{18.02\text{g/mol}}$$

$$36.04\text{g} = m$$

$$\text{b) [1] Same}$$

$$\text{[2] Same } 2.00\text{mol}$$

$$\text{[3] } 2.00\text{mol} \times \frac{1\text{mol?}}{2\text{mol given}} = 1.00\text{mol}$$

$$\text{[4] } n = \frac{m}{M} \quad 1.00\text{mol} = \frac{m}{32.00\text{g/mol}}$$

